

Adaptive Information Systems

Syllabus

Logistics MS

- Attendance
- Learning the topic
 - Topic readings and discussions
 - Playing a moderator
 - Research paper presentation
- Presentation project
- Final Project

Readings and Discussions: The Process

- There is assigned reading for each class on the presented topics
- To process and better understand each topic we will run a forum-based discussion
- Two students each week will play the role of moderators and challengers
- Two students will read alternative research papers on the last class topic
- At the start of each class, we will have 2 research paper presentations and a discussion of past class topics

Assigned Readings

- Each week, we will assign 1-2 chapters from the Adaptive Web Book or similar review-style papers

<http://www.springerlink.com/content/x646782t122p/#section=372718&page=1>

- Read at least ONE of the assigned sources
- You do not need to comprehend all in details, but should have a good command of the presented topic
 - Your project report should have strong connections to the chapters you read.
 - Focus on unclear, non-evident, hard to understand issues that require discussions

Response to Assigned Readings

- To better comprehend the topic, we will hold a discussion in the course forum
- Each student is expected to provide at least two expanded contributions
 - Not just 1-2 lines
 - Either a new issue or an expanded comment to an existing issue
- Which issues?
 - Hard to understand, questionable, surprising
- Once per semester you will play a role or a topic moderator or challenger
 - Moderators should read a chapter in detail, preferably BEFORE the lecture
 - Main goal to comment and discuss posts, but also to rise missed important issues
 - A good number (20) or comments from a moderator are expected. No need to be extensive

Research Reading

- Choose a course topic
 - 1-2 students per topic only, might not get your top choice!
 - Subjects have to be selected by the next lecture
- Find one paper on the this topics (CiteULike is a good source)
- Prepare PPT presentation
- Present in class (5 min!)
 - At the beginning of the class following this topic

Analysis Project

Play a business analyst; work in a group of 3-5 students

Explore

- Find a working adaptive system – industrial or research-level OR Explore a group of similar systems

Analyze

- Distill main ideas, guess (or read) which algorithms and approaches are being used, identify design issues, key problems

Compare

- Show how systems in the same class differ from each other by the distilled key features

Present

- Prepare a structured PowerPoint presentation, deliver in class. Go deep, try to deliver the stuff that goes beyond the surface features

List of Topics

- Movie recommenders (i.e., MovieLens)
- Music recommenders (i.e., last.fm)
- Web page recommendation (i.e., StumbledUpon)
- Personalized shopping (I.e., Amazon)
- Event recommenders (CoMeT, Eventur..)
- People recommendation (i.e., LinkedIn)
- <Your Topic May Be Here>
- Even better - pick up your preferred topic, something related to your own work!

About yourself & Final Project

Tell about Yourself

“About You” message to the discussion forum

Once the discussion system is set, post a brief information about you, your skills, your course goals and anything that might be relevant – for example projects you are considering. This is important to communicate and form teams for the project

Final Project (option of 6 credits)

Work in a team, create a a real small adaptive system. Create it from scratch or extend your existing project with adaptive features

Summary of e-mail to send

If you choose to stay with the course, send e-mail to the instructor (peterb@pitt.edu) within a day from the first class

- Name, where you take the course
- Topic selection for analysis projec
 - A category, or a complex system
- Help with topic selection for the class – any topic that you would prefer not to be missed?